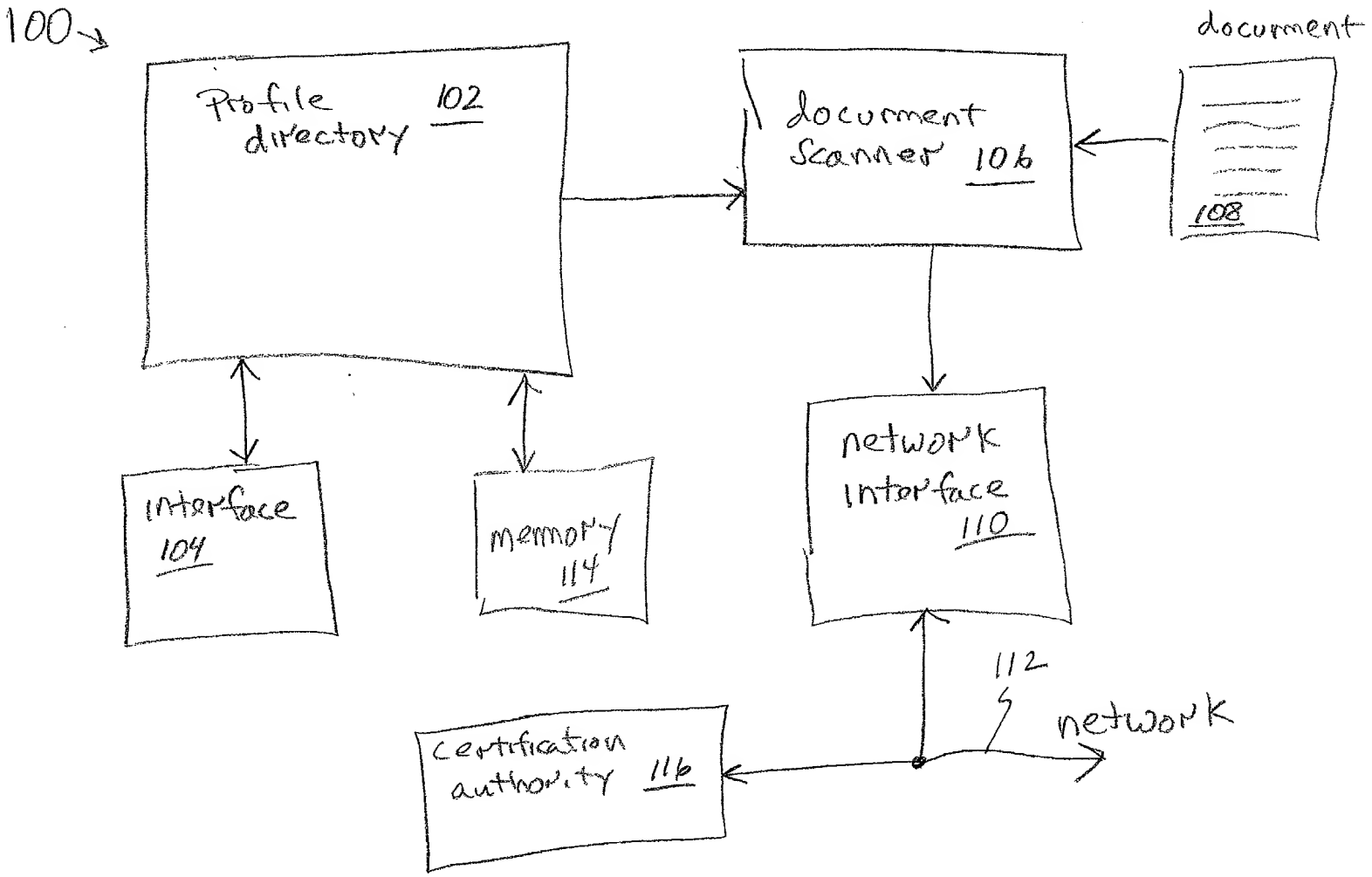
100
Profile directory 102
document scanner 106
document
108
interface 104
memory 114
network interface 110
112
network
certification authority 116

Fig. 1

Profile directory 102

| Profile # | destination | address field | encryption field | Password |
|---|---|---|---|---|
| 1 | Bob | bob@aol.com | Public key Bob | ABCD |
| 2 | Alice | 158.56.11.2 | sym key Alice | 1234 |
| . | . | . | . | . |
| . | . | . | . | . |
| . | . | . | . | . |
| n | George | g@Aol.com | | |

Fig. 2

Document ID: 0.8.5.6.1.8.8.5.0

```
-----BEGIN PGP PUBLIC KEY BLOCK-----
Version: PGP for Personal Privacy 5.0

mQGiBDchYBURBADA/mpuB0+k82TRm2MR0wnuNL8cVoUEWWOx/8wu0GZNWeFwhBkf
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hNTw/5+vwPVXdYxO9Cy6GfahGvYxBc9jwl6XAOeMnaE65N+/UfKltuq1i9a9wtdA
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=mBAJ
-----END PGP PUBLIC KEY BLOCK-----
```

Fig. 3

# Setup:

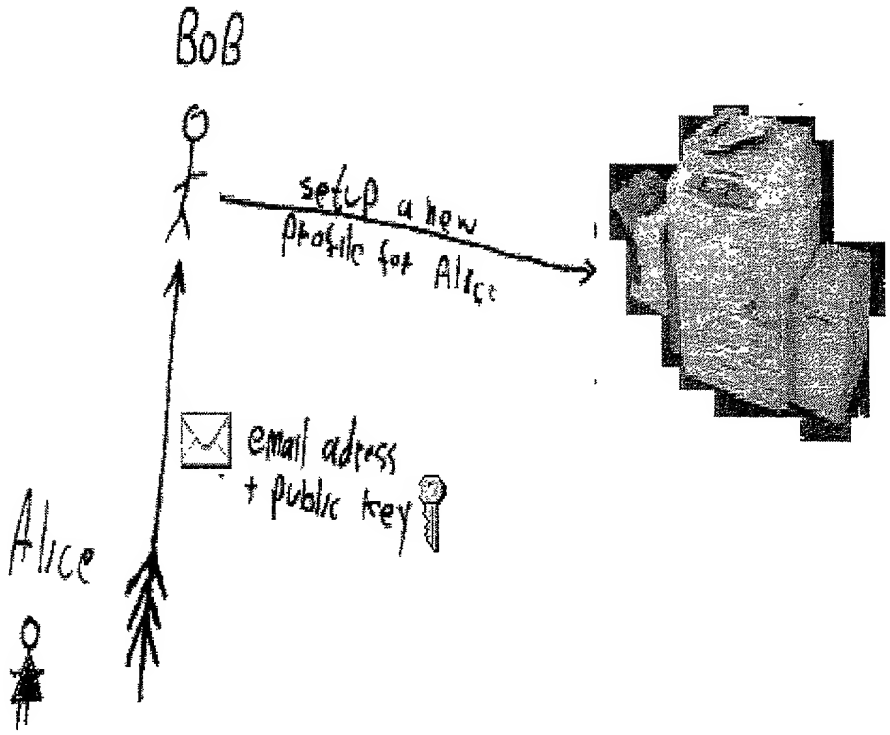

BoB
setup a new profile for Alice
email address
+ public key
Alice

Fig. 4a

Bob Sends an encrypted Message to Alice

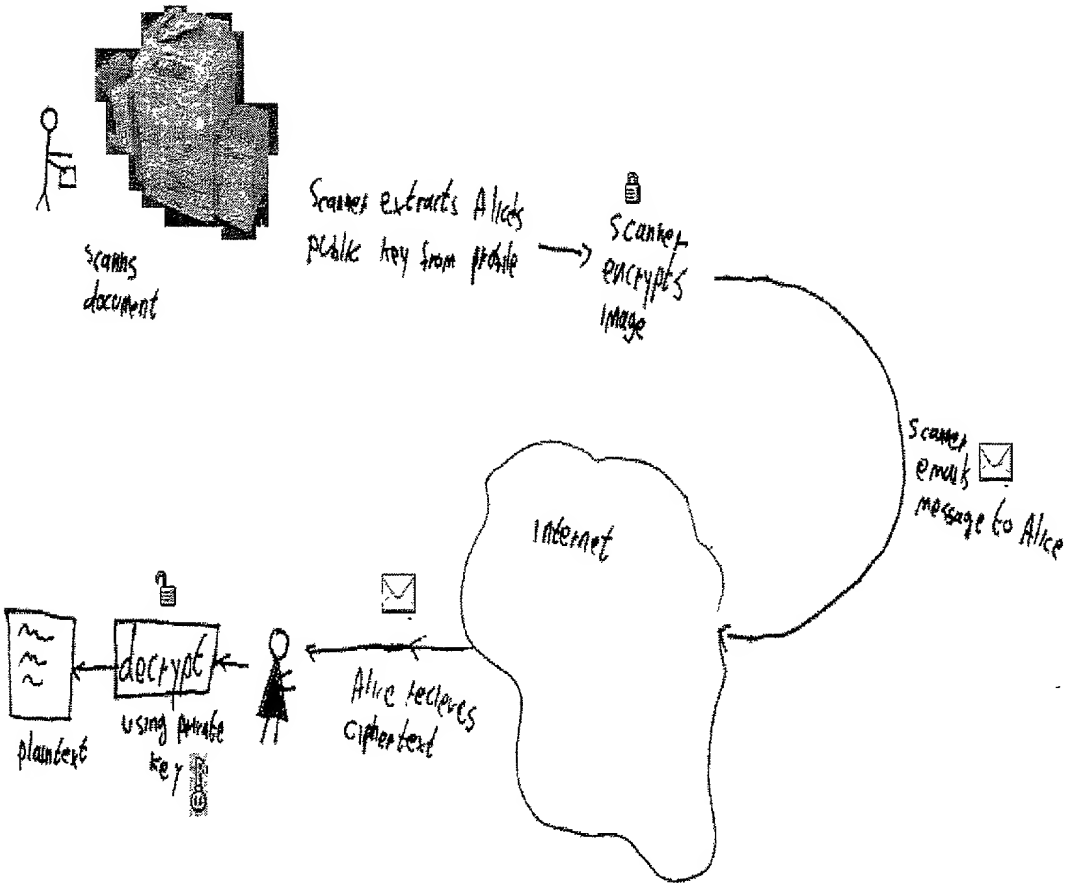
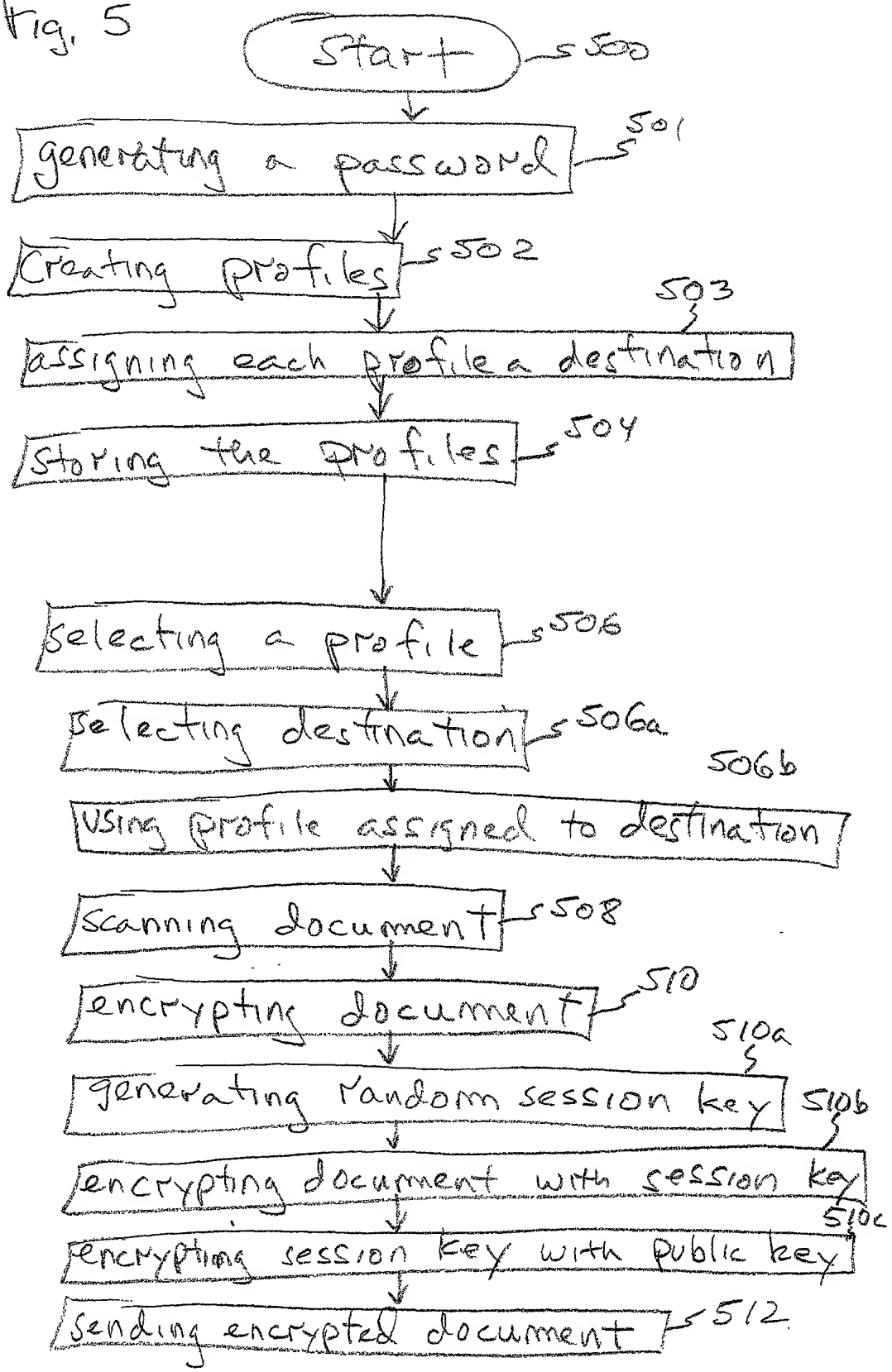



Fig. 4b

Fig. 5


Start
500
generating a password
501
Creating profiles
502
503
assigning each profile a destination
storing the profiles
504
selecting a profile
506
selecting destination
506a
506b
using profile assigned to destination
scanning document
508
encrypting document
510
510a
generating random session key
510b
encrypting document with session key
510c
encrypting session key with public key
sending encrypted document
512